REMARKS

Claims 1-35 were presented for examination. All the claims have been rejected. No claims have been allowed.

Applicant wishes to thank the Examiner for taking the time to thoroughly examine Applicant's application and for providing the detailed written response.

Applicant has cancelled claims 1-35. Claim 36 was previously cancelled.

Claims 37-62 are new (25 new claims, 3 independent).

Applicant has amended the Abstract to meet the word count limitation of 150 words total.

Applicant has amended the Specification to correct typographical errors.

REJECTION UNDER 35 USC §112

Claims 1-35 have been rejected under 35 U.S.C. 112, first paragraph.

Applicant has cancelled claims 1-35 and has submitted new claims 37-62 for examination. Applicant provides the following to show that adequate support exists for the new claims. The subject matter of independent claim 37 is repeated in independent claims 47 and 54.

TABLE 1

A method for dynamically creating a folder hierarchy, the method comprising:	Paragraphs [0024] and [0045]
creating a design-time folder group definition specifying an organization of a hierarchy of design-time folder groups with each design-time folder group consisting of	Figure 3 and [0049], [0054] [0208]

a plurality of design-time folders arranged in parent/child relationships, said definition including a set of variable binding expressions for associating a plurality of documents with a plurality of dynamic folders;	
generating a query with predicates from said set of variable binding expressions;	Tables 1, 2 and [0053-0054]
searching a collection of documents to identify documents which match said query, each of said documents in said collection of documents containing self-describing data;	Table 2 and [0023], [0024], [0030]
dynamically creating a hierarchy of dynamic folders including child dynamic folders within said hierarchy of design-time folder groups by using a combination of said design-time folder groups definition and said identified documents; and	Figure 4 and [0049], [0054]
associating each of said identified documents with at least one dynamic folder in said hierarchy of dynamic folders.	Figure 4 and [0025]

Support for the system claim 47 and for the computer program product claim 54 is provided in Figure 1 and the specification, namely:

"[0045] Specifically, FIG. 1 portrays an exemplary overall environment in which a system, a service, a computer program product, and an associated method (the "system 10") for creating dynamic folder hierarchies for documents according to the present invention may be used. System 10 comprises a software programming code or a

computer program product that is typically embedded within, or installed on a host server 15. Alternatively, system 10 can be saved on a suitable storage medium such as a diskette, a CD, a hard drive, or like devices."

"[0046] Users, such as remote Internet users, are represented by a variety of computers such as computers 20, 25, 30, and can access the host server 15 through a network 35. In one embodiment, system 10 creates dynamic folder hierarchies for documents, items, or object graphs stored on a data repository 40. Documents, items, or object graphs are collectively referenced herein as documents. In another embodiment, documents organized by system 10 in dynamic folder hierarchies are written in XML. Users access the documents through the dynamic folder hierarchy. In a further embodiment, users provide documents to system 10; system 10 then creates dynamic folder hierarchies for the user."

"[0047] Computers 20, 25, 30 each comprise software that allows the user to interface securely with the host server 15. The host server 15 is connected to network 35 via a communications link 45 such as a telephone, cable, or satellite link. Computers 20, 25, 30, can be connected to network 35 via communications links 50, 55, 60, respectively. While system 10 is described in terms of network 35, computers 20, 25, 30 may also access system 10 locally rather than remotely. Computers 20, 25, 30 may access system 10 either manually, or automatically through the use of an application."

No new matter has been added.

For the above stated reasons, Applicant respectfully asserts that there is adequate support for the new claims. Applicant respectfully requests that the rejection in this regard be withdrawn. Reconsideration is respectfully requested.

REJECTION UNDER 35 USC §103(a)

Claims 1-35 have been rejected under 35 U.S.C. 103(a).

Applicant has cancelled claims 1-35.

Applicant has added new claims 37-62 to overcome the prior art. No new matter has been added.

Applicant's invention is directed towards creating a folder hierarchy. A user forms a hierarchy of design-time folder groups by creating a design-time folder group definition. The design-time folder group definition creates a basic hierarchy from which dynamic folders are created as needed by system 10. The design-time folder groups 340 represent an organization of a collection of documents within a predetermined folder hierarchy. The design-time folder group hierarchy 300 comprises the design-time folder groups 340 and the organization of the design-time folder groups 340 into a hierarchy. [0049].

Each dynamic folder is specified by a pair: an associated design-time folder group definition and a distinct value of the query within its parent dynamic folder. Each dynamic folder is a child of the design folder group whose definition generates one or more dynamic folders. [0054]. The design-time group definition includes a set of variable binding expressions for associating a plurality of documents with a plurality of dynamic folders. The user defines variable binding expressions for the dynamic folder hierarchy at step 505 as part of the design-time folder group definitions. [0208]. The user generates a query with predicates from the set of variable binding expressions and the collection of documents are searched to identify documents which match the query.

Each of the documents in the collection of documents containing self-describing data. The self-describing data format is analyzed by the present system to place the documents in a dynamic folder hierarchy. For example, an XML document comprises descriptive tags such as <author>. These descriptive tags are used by the present

system to dynamically organize documents within a dynamic folder hierarchy. [0024]. The hierarchy of dynamic folders including child dynamic folders are created within the hierarchy of design-time folder groups by using a combination of the design-time folder groups definition and the documents. Given the documents of Table 2, the parameterized queries of Table 1, and the design-time folder group hierarchy 300 of FIG. 3, system 10 creates the dynamic folder hierarchy 400 shown in FIG. 4. [0054]

The folders are dynamically created. The existence of a folder within the present system depends on whether any documents in a collection of documents being organized by the present system meet the criteria for creation of that folder. If none of the documents in the collection of documents meet the criteria for a folder, the folder is not created. [0023]

The documents obtained from the collection of documents are associated with their respective dynamic folders. The documents are not physically placed in a dynamic folder by the present system. Rather, the present system retrieves a set of documents matching a query; the present system follows a path to retrieve documents much as a user follows a path in opening folders in a conventional foldering system to view documents co-located based on some criteria. The criteria for creating a dynamic folder hierarchy are predetermined by the user. The user can modify these criteria without changing the location of any of the documents that the dynamic folder hierarchy is organizing. Based on the criteria for the dynamic folder hierarchy, the dynamic folder hierarchy changes the location of documents within the dynamic folder hierarchy after document update without requiring manual intervention by a user. See, Figure 4 and [0025].

Applicant respectfully asserts that the prior art of record neither alone or in combination teach or suggest Applicant's invention as now claimed. Therefore, Applicant respectfully requests that the rejections in this regard be withdrawn. Reconsideration is respectfully requested.

CONCLUSION

The prior art made of record and not relied upon was reviewed and Applicant believes that such prior art is not pertinent to Applicant's disclosure.

No amendment made was related to the statutory requirements of patentability unless expressly stated herein. No amendment made was for the purpose of narrowing the scope of any claim, unless Applicant has argued herein that such amendment was made to distinguish over a particular reference or combination of references.

Applicant acknowledges the continuing duty of candor and good faith to disclose information known to be material to the examination of this application. In accordance with 37 CFR §1.56, all such information is dutifully made of record. The foreseeable equivalents of any territory surrendered by amendment are limited to the territory taught by the information of record. No other territory afforded by the doctrine of equivalents is knowingly surrendered and everything else is unforseeable at the time of this amendment by the Applicant and his attorneys.

The Commissioner is hereby authorized to charge any fees that may be required or credit any overpayment to **Deposit Account 09-0441**. In view of the preceding discussion, it is submitted that the claims are in condition for allowance. Reconsideration and re-examination is requested.

PLEASE CALL the undersigned if the Examiner believes that there are any informalities that can be corrected by Examiner's amendment, or that in any way it would help expedite the prosecution of the patent application.

Respectfully submitted,

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